

GILA RIVER BASIN
09490500 BLACK RIVER NEAR FORT APACHE, AZ

LOCATION--Lat 33°42'46", long 110°12'40", in NW_{1/4} sec. 12, T.4 N., R.20 E. (unsurveyed), Gila County, Hydrologic Unit 15060101, on downstream side of first pier from right bank on highway bridge, 5 mi upstream from confluence with White River and 14 mi west of Fort Apache.

DRAINAGE AREA--1,232 mi².

PERIOD OF RECORD--Oct. 1912 to Dec. 1915, Sept. 1916, Oct. 1917 to Jan. 1918, Apr. 1918, Oct. 1957 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS--WSP 1313: 1914-15, drainage area.

GAGE--Water-stage recorder. Elevation of gage is 4,345 ft above sea level, from river-profile map. Nov. 1912 to July 1918, nonrecording gages or water-stage recorders at several sites within 1 mi of present site at various datums.

REMARKS--No estimated daily discharges. Records good. One transbasin diversion for industrial and municipal use (see record of Willow Creek diversion from Black River, near Morenci). Negligible storage in several small recreational lakes.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 54,700 ft³/s, Jan. 8, 1993, gage height, 28.10 ft, from rating curve extended above 8,500 ft³/s on basis of slope-area measurements at gage heights 22.33 ft and 24.80 ft; minimum daily, 11 ft³/s July 6, 1974.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 3,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 14.....	0430	*1,510	*5.12

Minimum daily discharge, 28 ft³/s, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2004
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	39	60	52	66	139	434	190	47	35	50	31
2	45	39	64	70	62	125	423	177	46	36	43	29
3	44	40	63	66	60	123	480	164	43	37	37	34
4	42	40	62	63	63	129	573	153	42	36	34	43
5	42	41	60	59	64	184	596	146	39	32	37	45
6	47	46	57	51	63	401	565	139	37	30	40	77
7	48	46	55	49	57	933	546	131	36	29	43	68
8	51	47	58	62	52	709	656	127	35	28	45	60
9	53	46	63	55	60	707	702	121	34	29	41	53
10	61	46	65	56	61	870	746	116	32	31	38	46
11	64	48	60	52	64	960	804	115	32	34	36	40
12	68	51	56	56	67	984	849	111	31	35	53	37
13	62	64	58	54	64	1130	822	105	31	40	51	36
14	56	118	59	55	60	1420	726	102	34	52	56	38
15	52	309	59	61	60	1280	634	97	35	52	76	37
16	48	211	60	58	60	1230	567	91	35	124	70	37
17	46	157	50	63	63	1170	518	87	34	112	71	37
18	44	131	42	65	62	1080	482	82	33	79	129	37
19	43	115	43	63	62	1050	450	79	32	68	104	42
20	41	104	61	62	67	1030	413	75	31	62	92	45
21	41	96	64	60	78	988	380	71	30	57	74	59
22	40	88	66	62	97	1020	348	68	30	48	61	64
23	39	83	57	63	113	1060	319	66	30	49	53	62
24	38	79	55	61	105	1040	295	63	30	52	49	54
25	37	71	61	63	102	1010	276	62	33	66	45	45
26	37	70	58	69	96	942	260	59	38	85	44	42
27	37	68	57	69	90	839	243	57	38	81	45	40
28	37	72	56	56	102	731	228	55	37	69	41	42
29	37	64	44	53	136	622	214	53	37	63	37	43
30	38	60	34	59	---	533	202	51	36	59	34	44
31	39	---	44	65	---	472	---	50	---	58	32	---
TOTAL	1425	2489	1751	1852	2156	24911	14751	3063	1058	1668	1661	1367
MEAN	46.0	83.0	56.5	59.7	74.3	804	492	98.8	35.3	53.8	53.6	45.6
MAX	68	309	66	70	136	1420	849	190	47	124	129	77
MIN	37	39	34	49	52	123	202	50	30	28	32	29
AC-FT	2830	4940	3470	3670	4280	49410	29260	6080	2100	3310	3290	2710
CFSM	0.04	0.07	0.05	0.05	0.06	0.65	0.40	0.08	0.03	0.04	0.04	0.04
IN.	0.04	0.08	0.05	0.06	0.07	0.75	0.45	0.09	0.03	0.05	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2004, BY WATER YEAR (WY)

	203	154	341	395	563	1032	1092	463	103	84.6	178	143
MEAN	203	154	341	395	563	1032	1092	463	103	84.6	178	143
MAX	2725	769	2449	4904	3145	3864	4423	3109	448	763	659	650
(WY)	1984	1995	1979	1993	1980	1978	1915	1973	1973	1915	1959	1988
MIN	30.6	36.7	38.4	36.8	52.9	50.2	42.9	28.2	16.9	23.3	34.9	30.5
(WY)	1974	1976	1977	1976	2002	1999	2002	2002	1974	1994	1975	1960

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1915 - 2004

ANNUAL TOTAL	96120	58152	
ANNUAL MEAN	263	159	398
HIGHEST ANNUAL MEAN			1200
LOWEST ANNUAL MEAN			52.6
HIGHEST DAILY MEAN	3300	Mar 17	1420
LOWEST DAILY MEAN	23	Jul 12	28
ANNUAL SEVEN-DAY MINIMUM	24	Jul 7	30
ANNUAL RUNOFF (AC-FT)	190700	115300	288200
ANNUAL RUNOFF (CFSM)	0.214	0.129	0.323
ANNUAL RUNOFF (INCHES)	2.90	1.76	4.39
10 PERCENT EXCEEDS	876	537	1080
50 PERCENT EXCEEDS	76	60	96
90 PERCENT EXCEEDS	37	36	38